| PROJECT DESCRIPTION | EQUIPMENT | LIST 'A' | 1 2 3 4 | <u>PHASE CHART</u> 5 6 7 8 9 10 11 |
|--|-----------------------------|---|---|--|
| I. GENERAL | A. EQUIPMENT TO BE S | SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR. | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | (R) (R) (R) |
| THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 45 (YORK ROAD) AND AIGBURTH ROAD IN BALTIMORE COUNTY. | <u>ITEM</u> <u>QUANTITY</u> | DESCRIPTION | G G G | Y (|
| MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. | 9000 1 EA | CONTROLLER CABINET, SIZE "S" WITH CONTROLLER | Phase 2 & 6 G G G | G R R WK WK DW DW |
| | 9086 1 EA | VIDEO DETECTION INTERFACE UNIT 1-4 CAMERAS | Ped. Clear G G G G | G R R FL/DW FL/DW DW DW |
| II. INTERSECTION OPERATION | | FLAT SHEET ALUMINUM SIGNS CONSISTING OF: | 2 & 6 Change | G R R DW DW DW DW G G ■G/G R R DW DW DW Q |
| · | 9570 59 SF | GROUND-MOUNTED: | 7 | Y ◀Y/Y R R DW DW DW H √ |
| THE INTERSECTION SHALL OPERATE IN A NEMA 4-PHASE, FULLY-ACTUATED MODE. THE MD 45 APPROACHES SHALL OPERATE CONCURRENTLY WITH A | | 4 EA S1-1 (30" X 30") | Phase 4 R R R R R R R R R R R R R R R R R R | R G G DW DW DW DW DW L |
| LAGGING EXCLUSIVE/PERMISSIVE LEFT-TURN PHASE FOR THE SOUTHBOUND APPROACH. THE AIGBURTH ROAD APPROACH SHALL OPERATE INDEPENDENTLY. | | 2 EA W16-7P(L) (12" X 24") | Phase 4 ALT R R R R | |
| EXISTING PEDESTRIAN MOVEMENTS SHALL BE UPGRADED WITH INSTALLATION OF AUDIBLE PEDESTRIAN PUSHBUTTONS AND LED COUNTDOWN PEDESTRIAN SIGNALS | | 2 EA W16-7P(R) (12" X 24") | Ped. Clear R R R | R G G DW DW FL/DW FL/DW R Y DW DW DW DW DW |
| ON THE NORTH AND EAST LEGS. TRAFFIC DETECTION SHALL BE ACHIEVED USING VIDEO DETECTION CAMERAS. | | 1 EA M1-5(6) "NORTH, MARYLAND 45, RIGHT ARROW" | 4 ALT Change R R R R | |
| THE AUDIBLE PUSHBUTTONS WILL FUNCTION AS FOLLOWS: | | (36" X 72") | Operation FL/Y FL/Y FL/Y FL/ | Y FL/Y FL/R FL/R DARK DARK DARK DARK |
| 1. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN | | 1 EA M1-5(6) "SOUTH, MARYLAND 45, LEFT ARROW" (24" x 48") | | |
| EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL ANNOUNCE THE FOLLOWING MESSAGE: | | | | a,b,c,d, <u>WIRING DIAGRAM</u> J,K,L,M, |
| | 9571 14.5 SF | MAST ARM/POLE-MOUNTED: | | R,T,V |
| NORTH LEG: "Wait to cross York at Aigburth, Wait." EAST LEG: "Wait to cross Aibgurth at York, Wait." | | 1 EA D-3(1) "YORK RD" (VAR. X 16") MAST ARM MOUNT | a, b, ë, e D, E, F, C L, M, R, S | A,B,C,D, H,J,K, E,F,G,H,R |
| 2. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE. | | 1 EA R10-116 "NO TURN ON RED" (24"X24") MAST ARM MOUNT | S— | |
| TION, MOTOR WILL LAST FOR THE DUNATION OF THE WALK PHASE. | | 2 EA R10-3(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN | EXISTING OVERHEAD INTERCONNECT TO CROSS CAMPUS DRIVE/ | D.H.R |
| | | "TO CROSS AIGBURTH ROAD" (9" X 15") | TERRACE DALE DRIVE | |
| | | 2 EA R10-3(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "TO CROSS YORK ROAD" (9" X 15") | S — G&E 462768 | K.U— // |
| III. SPECIAL NOTES | EQUIP | MENT LIST 'B' | | // b MD 45 (YORK ROAD) S |
| 1. THE CONTRACTOR SHALL PURCHASE AND DELIVER THE AUDIO PUSHBUTTON AND 2-WIRE CENTRAL CONTROL UNIT FOR THE CONTROLLER CABINET TO THE SHA | B. EQUIPMENT TO E | BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR | 0,b,c,d, A,B,C,,E, F,G,J,K,L, | , N—b |
| SIGNAL SHOP FOR INSTALLATION AND PROGRAMMING. THE CONTRACTOR SHALL CONTACT MR. EDWARD RODENHIZER, CHIEF, SIGNAL SHOP, AT 410-787-7652 | ITEM QUANTI | | F,G,J,K,L, M,R,T,U,V | M N |
| THREE (3) DAYS PRIOR TO THE DELIVERY OF THE EQUIPMENT. | 1001 1 EA 2002 2 CY | | MD 45 (YORK ROAD) NBL | // L |
| 2. MAINTENANCE OF TRAFFIC WILL BE PERFORMED BY THE CONTRACTOR UTILIZING THE STANDARD PLATES FOR TRAFFIC CONTROL FROM SECTION | 2002 2 CY 5004 540 LF | | C.U C.U | K, L D, K, L |
| MD 104.00 OF THE SHA BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES. | 5005 70 LF | | c.d.U— d | EXISTIN UNDERGR |
| 3. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES. | | PAVEMENT MARKING LINES | 0.b.J. K.L.M | INTERCON E BURKE AV |
| The state of the s | 6002 600 SF 6003 35 SF | | a.b.c.d. C.G.J.K. | M K.L B.F.R |
| PROJECT CONTACTS | 8000 11.8 SF | \cdot | C.G.J.K. L.M.R.U. | ь. Ј. |
| 1. THE FOLLOWING ARE THE CONTACT PERSONS FOR THE PROJECT: | 8000 1 EA | | RM | G K,L,M |
| MS. ERIN KUHN, ASSISTANT DISTRICT ENGINEER - TRAFFIC | 8001 22 EA | | | A,B,E, R,C P |
| PHONE: (410) 229-2381 | 8002 1 EA 8004 3 EA | | | AD TH |
| MR. JESSE FREE, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION PHONE: (410) 229-2421 | 8008 4 EA | | | WIRING LEGEND |
| | 8009 3 EA | | | a.b.c.d - 3 CONDUCTOR NO. 18 AWG VIDEO CABLE |
| MR. ANDRE FUTRELL, ASSISTANT DISTRICT ENGINEER — MAINTENANCE PHONE: (410) 229—2361 | 8012 1 EA | 100 AMP EMBEDDED METERED SERVICE PEDESTAL WITH BYPASS SWITCH | TOD NO: XY125-06 SHA NO: BA087B5J | A.B.C.D - 2 CONDUCTOR NO. 14 AWG ELEC. CABLE E.F.G.H - 5 CONDUCTOR NO. 14 AWG ELEC. CABLE |
| MR. MICHAEL PASQUARIELLO, UTILITY ENGINEER | 8014 1 EA | | MD 45 @ Aigburth Road | J.K.L.V - 7 CONDUCTOR NO. 14 AWG ELEC. CABLE M - 5 CONDUCTOR NO. 14 AWG ELEC. CABLE (ILLUMINA |
| PHONE: (410) 229-2341 | 8016 4 EA | | | N.O.P - 5 CONDUCTOR NO. 14 AWG ELEC. CABLE (JUMPER) R - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE |
| MR. NEIL HAINES, CONSTRUCTION INSPECTION PHONE: (443) 572-5233 | .8020 1 E.A 8024 1 E.A | | | S.T - EXISTING INTERCONNECT CABLE (TO BE PULLED BARE-ROUTED TO NEW CONTROLLER U - 3 CONDUCTOR NO. 12 AWG (B.W.G) TYPE T/C |
| MS. CORREN JOHNSON, DIVISION CHIEF - TRAFFIC OPERATIONS, OOTS | · | (PER ASSIGNMENT) | | PS - 1 CONDUCTOR NO. 8 AWG-THHN/THWN ELEC. CABLE (METERED SERVICE) |
| PHONE: (410) 787-7630 | 8029 4 EA 8034 140 LF | | | SF - PROPOSED SERVICE FEED GROUND ROD (3/4" DIA. X 10' LENGTH) |
| MR. EDWARD RODENHIZER, CHIEF — SIGNAL SHOP Phone: (410) 787-7652 | 8038 50 LF | | | + - EXISTING GROUND RDD |
| MR. EUGENE BAILEY, CHIEF — SIGN SHOP | 8040 240 LF | | | STATE OF MARYLAND |
| PHONE: (410) 787-7676 | 8041 131 LF | · | | DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION |
| MR. MIKE STOCKER, SUPPLY OFFICE (SIGNAL SHOP WAREHOUSE) PHONE: (410) 787-7668 | 8042 73.5 SF | INSTALL OVERHEAD OR GROUND-MOUNTED SIGNS INCLUDING ALL HARDWARE | | OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION |
| POWER COMPANY REPRESENTATIVE: | 8044 220 LF | | | MD 45 (YORK ROAD) AT AIGBURTH ROAD |
| BALTIMORE GAS AND ELECTRIC 1068 FRONT STREET | 8047 60 LF 8048 1 EA | | | TOWSON, MARYLAND |
| BALTIMORE, MARYLAND 21202 410-637-0713 | 8055 500 LF | | | GENERAL INFORMATION SHEE |
| יוט ונט טור יונט טורי | 8057 750 LF | | | SCALE <u>NONE</u> ADVERTISED DATE <u>MAY 23, 2013</u> CONTRACT NO |
| ÉQUIPMENT LIST 'C' | 18058 700 LF | | RE CENTURY ENGINEERING | DESIGNED BYBALTIMOF |
| C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY | 8068A 1 E <i>A</i> | ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH LED LAMP AND LUMINA | CONSULTING ENGINEERS - PLANNERS | DRAWN BY ENBMFP III LOGMILE 03004501. CHECKED BY NMR TIMS NO. L394 |
| EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL AUXILIARY ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL | | | 10710 GILROY ROAD HUNT VALLEY, MD 21031 | F.A.P. NO TOD NO |
| BECOME THE PROPERTY OF THE CONTRACTOR. | | | REVISION 'E' CEI PROJECT NO. 101195.90 | TS NO. 159E DRAWING SG-02 OF 2 SHEET NO. 2 |
| | <u>;;</u> _ ; _ | <u> </u> | PLOTTED: Thursday, May 23, 2013 AT 04:08 PM | 0 - MD 45 (York Road) at Aigburth Road\CADD\ACAD SheetSets\pSG-P002_MD45atAigburth.dgn |